

REMARKS

Applicants have studied the Office Action dated February 22, 2007, and have made amendments to the claims. Claims 1, 2, 7, 8, 11 and 12 have been amended. Claims 6, 10, and 13-15 have been canceled without prejudice. Claims 16 and 17 are new. No new matter has been added. It is submitted that the application, as amended, is in condition for allowance. Reconsideration is respectfully requested.

Objection to the Drawings

The drawings were objected to because "Nyquist slop" as described in Fig. 7 should be "Nyquist slope". Accordingly, a corrected drawing sheet including Fig. 7 is attached with this paper, wherein the appearance of the term "Nyquist slop" has been amended to correctly recite "Nyquist slope". In view of this, it is respectfully requested that the objection to the drawings be withdrawn.

Objection to the Specification

The disclosure was objected to because of the following informalities: various parts of the specification describe "Nyquist slop", which should be "Nyquist slope". Accordingly, paragraphs 47, 64, 67, 72 and 75 of the specification have been amended to recite "Nyquist slope". Moreover, other parts of the specification have been amended to correct typographical/grammatical errors. In view of this, it is respectfully requested that the objection to the specification be withdrawn.

Objection to the Claims

Claims 1-15 were objected to because of the following informalities:

First, in claims 1, 10 and 13, the terms "A/D" and "QAM" were not defined. With this paper, claims 10 and 13 have been canceled without prejudice. Therefore, the objection with respect to claims 10 and 13 is now moot. With respect to independent claims 1 and 8, as amended, the terms "A/D" and "QAM" have been defined in their respective lines.

Second, claims 6 and 8 are equivalent to claims 10 and 13, respectively. Thus, the examiner indicated that a single set of claims from above should be canceled. As previously stated, claims 10 and 13 have been canceled.

In view of the above, it is respectfully requested that the objection to the claims be withdrawn.

Rejection under 35 U.S.C. § 103

Claims 1-4 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Lin et al. (U.S. Patent Application Publication No. 2003/0058967 A1). This rejection is respectfully traversed.

On page 8 of the present Office Action, the examiner indicated that original claims 6-9 were objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. With this paper, the limitations of original claim 6 have been amended into independent claim 1 (base of claim 6). Accordingly, it is respectfully submitted that claim 1 and the claims dependent on claim 1 are allowable.

Similarly, claim 8 has been rewritten in independent form including all of the limitations of original claim 1 (base of claim 8). Accordingly, it is respectfully submitted that claim 8 and the claims dependent from claim 8 are allowable.

New Claims 16 and 17

With this paper, new claims 16 and 17 have been added. It is submitted that the new claims do not constitute new matter. Accordingly, because of their dependence on amended claim 8, it is respectfully submitted that new claims 16 and 17 are in condition for allowance.

CONCLUSION

In light of the above remarks, Applicant submits that the present Amendment places all claims of the present application in condition for allowance. Reconsideration of the application, as amended, is requested.

No amendment made was related to the statutory requirements of patentability unless expressly stated herein; and no amendment made was for the purpose of narrowing the scope of any claim, unless Applicant has argued herein that such amendment was made to distinguish over a particular reference or combination of references.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at the Los Angeles, California, telephone number (213) 623-2221 to discuss the steps necessary for placing the application in condition for allowance.

Respectfully submitted,

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